

IN THE ABSTRACT:

Please replace the Abstract with the following:

**ABSTRACT OF THE DISCLOSURE**

An arrangement (10) for efficiently generating tunable pulsed laser output at 8-12 microns. The arrangement (10) includes a laser (12), a first optical parametric oscillator (14) of unique design, and a second optical parametric oscillator (22). The first oscillator (14) is constructed with an energy shifting crystal (20) and first and second reflective elements (16) and (18) disposed on either side thereof. Energy from the laser (12) at a first wavelength is shifted by the crystal and output at a second wavelength. The second wavelength results from a secondary process induced by a primary emission of energy at a third wavelength, the third wavelength resulting from a primary process generated from the first wavelength in the crystal. Mirror coatings are applied on the reflective elements (16 and/or 18) for containing the primary emission and enhancing the secondary process. The second optical parametric oscillator (22) then shifts the energy output by the first OPO (14) at the second wavelength to the desired fourth wavelength.